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 OM protein - protein search, using sw model.  
 Run on: September 11, 2003, 14:13:56 ; Search time 24 Seconds  
 (without alignments)  
 893.817 Million cell updates/sec

Title: US-09-977-261-2  
 Perfect score: 2671  
 Sequence: 1 MAGRGSLSLVSWRAFHGCCDAE.....PASVSGQDADGSTSPRSQEP 507  
 Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%

Listing first 45 summaries .

Database : Issued Patents AA:\*

- 1: /rgn2\_6/ptodata/1/iax/5A\_COMB.pep:\*
- 2: /rgn2\_6/ptodata/1/iax/5B\_COMB.pep:\*
- 3: /rgn2\_6/ptodata/1/iax/6A\_COMB.pep:\*
- 4: /rgn2\_6/ptodata/1/iax/6B\_COMB.pep:\*
- 5: /rgn2\_6/ptodata/1/iax/PCUTS\_COMB.pep:\*
- 6: /rgn2\_6/ptodata/1/iax/backfilesi.pep:\*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	2671	100.0	507	4 US-08-426-509A-2
2	2671	100.0	507	4 US-08-426-509A-2
3	2671	100.0	507	5 PCT-US95-05008-2
4	2664	99.7	507	2 US-08-604-989A-5
5	2445	91.5	527	4 US-09-315-928-2
6	2444	91.5	466	2 US-08-604-989A-4
7	2434.5	91.1	528	2 US-08-766-882-2
8	2012	75.3	386	4 US-09-741-154-4
9	2012	75.3	415	4 US-09-741-154-2
10	1269	47.5	246	2 US-08-604-989A-3
11	1245.5	46.6	450	4 US-08-426-509A-7
12	1245.5	46.6	450	4 US-08-232-545-7
13	1245.5	46.6	450	5 PCT-US95-05008-7
14	797	29.8	269	2 US-08-426-509A-18
15	768	28.8	258	3 US-09-035-706-3
16	768	28.8	258	3 US-08-955-841-3
17	768	28.8	258	4 US-09-390-425-3
18	768	28.8	258	4 US-09-565-906-3
19	742.5	27.8	509	3 US-09-039-555B-17
20	742.5	27.8	509	4 US-08-426-509A-18
21	742.5	27.8	509	4 US-09-457-0405-8
22	742.5	27.8	509	4 US-08-232-545-18
23	742.5	27.8	509	5 PCT-US95-05008-18
24	732	27.4	533	1 US-07-820-011-2
25	732	27.4	533	5 PCT-US93-00445-2
26	727	27.2	536	1 US-07-820-011A-4
27	727	27.2	536	4 US-08-426-509A-13

ALIGNMENTS

RESULT 1  
 US-08-426-509A-2  
 Sequence 2, Application US/08426509A  
 ; Patent No. 6326469  
 GENERAL INFORMATION:  
 APPLICANT: Ulrich, Axel  
 APPLICANT: Gishinsky, Mikhail  
 APPLICANT: Sures, Irman G.  
 TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Pennie & Edmonds  
 STREET: 1155 Avenue of the Americas  
 CITY: New York,  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10036-2711

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTSEQ Version 2.0

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/426\_509A  
 FILING DATE: 21-APR-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/232,545  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A  
 REGISTRATION NUMBER: 30,742  
 REFERENCE/DOCKET NUMBER: 7683-0074-999  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-790-9090  
 TELEFAX: 212-829-9711  
 TELE: 6611 PENNIE  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 507 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: No. 6326469e  
 US-08-426-509A-2

Query Match 100.0%; Score 2671; DB 4; Length 507;  
 Best Local Similarity 100.0%; Prod. No. 2.7e-219;  
 Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



MEDIUM TYPE: FLOPPY disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/05008  
FILING DATE: 24 APR-1995  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/733,245  
FILING DATE: 22-APR-1994  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goruzzi, Laura A.  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7683-074  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9990  
TELEFAX: (212) 869-9741  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 507 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
PCT-US95-05008-2

MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/05008  
 FILING DATE: 24-APR-1995  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/232,545  
 FILING DATE: 22-APR-1994  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A.  
 REGISTRATION NUMBER: 30,742  
 REFERENCE/DOCKET NUMBER: 7683-074  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212)790-9090  
 TELEFAX: (212)869-9741  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 507 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 PCT-US95-05008-2

Patent No. 5834208  
 GENERAL INFORMATION:  
 APPLICANT: Sakano, S.  
 TITLE OF INVENTION: No. 5834208el T  
 NUMBER OF SEQUENCES: 11  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Pennie & Edmonds LLP  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: USA  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/604,989  
 FILING DATE: February 23, 1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Charles E. Miller  
 REGISTRATION NUMBER: 24,576  
 REFERENCE/DOCKET NUMBER: 19120-026  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEFAX: (212) 869-8864/741

RESULT 5

US-09-315-928-2

; Sequence 2, Application US/09315928

; Patent No. 6368796

GENERAL INFORMATION:

APPLICANT: Groisman, Jerome E.

TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF BREAST CANCER

FILE REFERENCE: NEDH97-01PZ

CURRENT APPLICATION NUMBER: US/09/315, 928

CURRENT FILING DATE: 1999-05-20

PRIOR APPLICATION NUMBER: US 08/876, 882

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: US 60/035, 228

PRIOR FILING DATE: 1997-01-08

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 2

LENGTH: 527.

TYPE: PRT

ORGANISM: Homo sapiens

US-09-315-928-2

Query Match 91.5%; Score 2445; DB 4; Length 527; Best Local Similarity 93.5%; Pred. No. 4. 9e-200; Matches 472; Conservative 1; Mismatches 18; Indels 14; Gaps 2;

QY 1 MAGRSGLSVWRRAFHGGCOSAELPVSFRFLRAWHPPVSAKPRTRKAWPGQCTRCENT 60

Db 1 MAGRSGLSVWRRAFHGGCOSAELPVSFRFLRAWHPPVSAKPRTRKAWPGQCTRCENT 60

QY 61 RPKGELAFRKGDVVTILEACENKSWSWRVKHHTSGOBGLLAGALREREALSDAPKSLM 120

Db 61 RPKGELAFRKDVVILEACENKSWSWRVKHHTSGOBGLAGALREREALSDAPKSLM 120

QY 121 PWFHGKISGQEAQVQLOPPEGFLYRESARHPGDVLCVSFRGDVTHYRVLHRDHTI 180

Db 121 PWFHGKISGQEAQVQLOPPEGFLYRESARHPGDVLCVSFRGDVTHYRVLHRDHTI 180

QY 181 DEAFFCNLMDAVEHSTSVDKGAICLTKVLRKRGKSAEELARAGWLNLQHLTGQ 240

Db 181 DEAFFCNLMDAVEHSTSVDKGAICLTKVLRKRGKSAEELARAGWLNLQHLTGQ 240

QY 241 IGEGERGAVALOGEYLQKQVAVKNTKCVTAQAFDENTAVMRKMOHENLVRILGVHLQGT 300

Db 241 IGEGERGAVALOGEYLQKQVAVKNTKCVTAQAFDENTAVMRKMOHENLVRILGVHLQGT 300

QY 301 YTMERVKSGNLFNLTRGRALVNTAQLQFLSLHYAEGMYLESKKLVRHDLAARNILV 360

Db 301 YTMERVKSGNLFNLTRGRALVNTAQLQFLSLHYAEGMYLESKKLVRHDLAARNILV 360

QY 361 SEDLVAKVSKDGLAKAERKGKDSSRLPKWTAPEALKHG-FTSKSDWVSGFLWVFSY 420

Db 361 SEDLVAKVSKDGLAKAERKGKDSSRLPKWTAPEALKHG-FTSKSDWVSGFLWVFSY 420

QY 421 GRAPYPKMSLKEVSEAVEKGYRMEEPPGCPGPVHVLMSCMNEAEPARRPFLKLAELKAR 480

Db 420 GRAPYPKMSLKEVSEAVEKGYRMEEPPGCPGPVHVLMSCMNEAEPARRPFLKLAELKAR 480

QY 481 ERLSAGAPASVSGODDGTSPRSO 505

Db 470 --SANWPRSNPGSYAVQVOPPSQ 491

RESULT 6

US-08-604-989A-4

; Sequence 4, Application US/08604989A

; Patent No. 5834208

GENERAL INFORMATION:

APPLICANT: Sakano, S.

TITLE OF INVENTION: No. 5834208e1 Tyrosine Kinase

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

ZIP: 10036-2711

COMPUTER READABLE FORM:

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/604, 989A

FILING DATE: February 23, 1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Charles E. Miller

REGISTRATION NUMBER: 24, 576

REFERENCE/DOCKET NUMBER: 1920-026

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

TELEFAX: (212) 859-8864/9741

TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 466 amino acids

TYPE: amin acid

TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: human

STRAIN: UT-7

US-08-604-989A-4

Query Match 91.5%; Score 2444; DB 2; Length 466; Best Local Similarity 100.0%; Pred. No. 5e-200; Matches 466; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 MPTRRWAPGTCITKCEHTRPKGEAFRKGDVVTILEACENKSWSWRVKHHTSGOBGLA 101

Db 1 MPTRRWAPGTCITKCEHTRPKGEAFRKGDVVTILEACENKSWSWRVKHHTSGOBGLA 60

QY 102 AGALREREALSDAPKSLMPWFHGKISGQEAQVQLOPPEGFLYRESARHPGDVLCVS 161

Db 61 AGALREREALSDAPKSLMPWFHGKISGQEAQVQLOPPEGFLYRESARHPGDVLCVS 161

QY 162 FGDRDVTHYRVLHRDHTIDEAFFCNLMDAVEHSTSVDKGAICLTKVLRKRGKSAE 221

Db 121 FGDRDVTHYRVLHRDHTIDEAFFCNLMDAVEHSTSVDKGAICLTKVLRKRGKSAE 180

QY 222 ELARAGWLNLQHLTGQAGQGERGERGAVALOGEYLQKQVAVKNTKCVTAQAFDENTAVMT 281

Db 181 ELARAGWLNLQHLTGQAGQGERGERGAVALOGEYLQKQVAVKNTKCVTAQAFDENTAVMT 240

QY 282 KMQHENLVRILGVHLQGLYVMEHSGKGNLFNLTRGRALVNTAQLQFLSLHYAEGME 341

Db 241 KMQHENLVRILGVHLQGLYVMEHSGKGNLFNLTRGRALVNTAQLQFLSLHYAEGME 300

QY 342 YLESKLVHDLAARNILVSELDLVAKVSKDGLAKAERKGKDSSRLPKWTAPEALKHGK 401

Db 301 YLESKLVHDLAARNILVSELDLVAKVSKDGLAKAERKGKDSSRLPKWTAPEALKHGK 360

QY 402 TSKSDWVSGFLWVFSYGRAPYPKMSLKEVSEAVEKGYRMEEPPGCPGPVHVLMSCM 461

RESULT 7  
 US-08-876-882-2  
 ; Sequence 2, Application US/08876882  
 ; PATENT NO. 5981201  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Avraham, Hava  
 ; APPLICANT: Groopman, Jerome E.  
 ; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT  
 ; TITLE OF INVENTION: OF BREAST CANCER  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Hamilton, Brook, Smith & Reynolds P.C.  
 ; STREET: Two Militia Drive  
 ; CITY: Lexington  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02173-4799  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: DISKETTE  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows  
 ; SOFTWARE: FastSeq for Windows Version 2.0b  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/876,882  
 ; FILING DATE: 16-JUN-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/035, 228  
 ; FILING DATE: 08-JAN-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Doreen, Hogle M  
 ; REGISTRATION NUMBER: 36, 361  
 ; REFERENCE/DOCKET NUMBER: NEDH97-01PA  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 781-861-6240  
 ; TELEFAX: 781-861-9540  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 528 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; FRAGMENT TYPE: internal  
 ; US-08-876-882-2

Query Match 91.1%; Score 2434.5; DB 2; Length 528;  
 Best local Similarity 93.3%; Pred. NO. 3.8e-199; DB 4;  
 Matches 472; Conservative 1; Mismatches 18; Indels 15; Gaps 3;

Qy 1 MAGRGSILVWRAFHGCDSAELPLRSPTRIRAWHPPVSPARMPPRWRWAGPTQCTIKCET 60  
 Db 1 MAGRGSILVWRAFHGCDSAELPLRSPTRIRAWHPPVSPARMPPRWRWAGPTQCTIKCET 60

Qy 61 RPKGELARFKGDVVTI-LACENKSWYRKHHTSGQEGILAGAAREEALSDAPKLS 119  
 Db 61 RPKGELARFKGDVVTI-LACENKSWYRKHHTSGQEGILAGAAREEALSDAPKLS 120

Qy 120 MPWFHGKIGSQEAVQOLQPEDGFLVRSRASHRGPDYVLCVSFGRDVYIYVRLHDGHLT 179  
 Db 121 MPWFHGKIGSQEAVQOLQPEDGFLVRSRASHRGPDYVLCVSFGRDVYIYVRLHDGHLT 180

Qy 180 IDEAVFFCNLMDYEHYSKDGAICTKLRPKRKHGKTAEEELARAGLNLNQHLTGA 239  
 Db 181 IDEAVFFCNLMDYEHYSKDGAICTKLRPKRKHGKTAEEELARAGLNLNQHLTGA 240

RESULT 8  
 US-09-741-154-4  
 ; Sequence 4, Application US/09741154  
 ; PATENT NO. 6437110  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BEASLEY, Ellen M. et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF  
 ; FILE REFERENCE: CL001061  
 ; CURRENT APPLICATION NUMBER: US/09/741,154  
 ; CURRENT FILING DATE: 2000-12-21  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 386  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-741-154-4

Query Match 75.3%; Score 2012; DB 4; Length 386;  
 Best Local Similarity 100.0%; Pred. NO. 2.4e-163; DB 4;  
 Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 122 WFGHGTSQEAQVQOLQPEDGFLVRSRASHRGPDYVLCVSFGRDVYIYVRLHDGHLT 181  
 Db 1 WFGHGTSQEAQVQOLQPEDGFLVRSRASHRGPDYVLCVSFGRDVYIYVRLHDGHLT 60

Qy 182 EAVFFCNLMDYEHYSKDGAICTKLRPKRKHGKTAEEELARAGLNLNQHLTGAQI 241  
 Db 61 EAVFFCNLMDYEHYSKDGAICTKLRPKRKHGKTAEEELARAGLNLNQHLTGAQI 240

Qy 242 GEGEGAVLQGEYLGQKVAKNPKDVTQAFDLETAWMKMHENLVRLGVLHQGLY 301  
 Db 121 GEGEGAVLQGEYLGQKVAKNPKDVTQAFDLETAWMKMHENLVRLGVLHQGLY 180

Qy 302 IVMETIVSKGMVNFTRGRALVNAQLOFLHAGMEYLESKLVHDLARNLVS 361  
 Db 181 IVMETIVSKGMVNFTRGRALVNAQLOFLHAGMEYLESKLVHDLARNLVS 360

Qy 362 EDLVAKVSDGLAKERKGKDSSRIPVKWTAPEAKLHKGKPTSKSDWSFGVLLMEFSYG 421  
 Db 241 EDLVAKVSDGLAKERKGKDSSRIPVKWTAPEAKLHKGKPTSKSDWSFGVLLMEFSYG 300

Qy 422 RAPYKMSLKEVSEAVEKGYRMEPPEGCPVHIMSSCWEAEPRRPPEPKLAKLARE 481  
 Db 301 RAPYKMSLKEVSEAVEKGYRMEPPEGCPVHIMSSCWEAEPRRPPEPKLAKLARE 360

Qy 482 LRSAGAPASYSQGDGSGSPRSOP 507  
 Db 361 LRSAGAPASYSQGDGSGSPRSOP 386



APPLICATION NUMBER: US/08/426,509A  
 FILING DATE: 21-APR-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/232,545  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A  
 REGISTRATION NUMBER: 30,742  
 REFERENCE/DOCKET NUMBER: 7683-0074-999  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-790-9050  
 TELEFAX: 212-869-9741  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 7:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 450 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: NO. 63264696  
 US-08-426-509A-7

Query Match 46 6%; Score 1245.5; DB 4; Length 450;

Best Local Similarity 54.1%; Pred. No. 5.3e-98; Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCIITKCEHTRPKGELAFRKGDVWTLACENKSWMYRUKHTSGOEGLLAAGLR 106  
 Db 8 WPSGTECAKYNFHGTAEQDLPCKGDVLTIVAVTKDPNWKAKNV-GREGITIPNYVQ 66

QY 107 EREALSDPKLISLMPWPHGKTSQGQAVQQLQPPEDGLFVRESARUPGVDYLCLVSFRGDV 166  
 Db 67 KREGVKGAKTISLMPWPHGKTRQEAERLKPPTGFLYRESTWPGDTCVSCDGKV 126

QY 167 IHYRVHARDGHTIDEAVFCNLMDVHEYSKDKGAICTKLYVRPKRGHTSAEELARA 226  
 Db 127 EHYRIMHASKLISIDEDEVYFENLMOVLVEHYTSADAGLCTRLIKPKMEGTVAQDEFYRS 186

QY 227 GWLLNIQHLTGAQIGEGEGAVLQGEYLGQKAVKNIKCDVTAQAFDTEAVTMKMQHE 286  
 Db 187 GWALNNKELKLQITGKGEFGDVMGLDYGRRKAVKCIKNDATAQFLAASVMTQLRHS 246

QY 287 NLVRLLGVLHQ--GLYIYMEHVSKGNLVFLRGRALVNTAQIQLQSLHVAEGMEYLE 344  
 Db 247 NLVQOLGIVVEKGGYIYVTEYMAKGSVLSVOLRSGRSVLGGDCLLKFSLDVCEAMEYLE 306

QY 345 SKKLVHDLAARNLIVSEDLVAKVSDPGLAKAERKGGLDSSRLPVKWTAPAEALKHGFTSK 404  
 Db 307 GNNFVHDLAARNLIVSEDLVAKVSDPGLKTAESSTDQTLKLPVWTAPELREKKFSTK 366

QY 405 SDWWSFGVLLMEVFSGRAPYPKMSLKEVSEAVEKGYRMPPEGGPGPVHLMSSCWEAE 464  
 Db 367 SDWWSFGVLLMEVFSGRVPPRIPKDVPPRVEKGYKMDADPGDPPAVVEVMKNCWHL 426

QY 465 PARRPPRKLAEKL 478  
 Db 427 AAMRPSFLQQLREQL 440

RESULT 12  
 US-08-232-545-7  
 Sequence 7, Application US/08232545  
 Patent No. 6506578  
 GENERAL INFORMATION:  
 APPLICANT: Ulrich, Axel

APPLICANT: Gishizsky, Mikhail  
 APPLICANT: Sures, Iman G.  
 TITLE OF INVENTION: Megakaryocytic Protein Tyrosine  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 Pennie & Edmonds

STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/232,545  
 FILING DATE: 22-APR-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A.  
 REGISTRATION NUMBER: 30,742  
 REFERENCE/DOCKET NUMBER: 7683-050  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 869-9741  
 TELEFAX: (212) 869-9741  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 7:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 450 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 US-08-232-545-7

Query Match 46 6%; Score 1245.5; DB 4; Length 450;

Best Local Similarity 54.1%; Pred. No. 5.3e-98; Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCIITKCEHTRPKGELAFRKGDVWTLACENKSWMYRUKHTSGOEGLLAAGLR 106  
 Db 8 WPSGTECAKYNFHGTAEQDLPCKGDVLTIVAVTKDPNWKAKNV-GREGITIPNYVQ 66

QY 107 EREALSDPKLISLMPWPHGKTSQGQAVQQLQPPEDGLFVRESARUPGVDYLCLVSFRGDV 166  
 Db 67 KREGVKGAKTISLMPWPHGKTRQEAERLKPPTGFLYRESTWPGDTCVSCDGKV 126

QY 167 IHYRVHARDGHTIDEAVFCNLMDVHEYSKDKGAICTKLYVRPKRGHTSAEELARA 226  
 Db 127 EHYRIMHASKLISIDEDEVYFENLMOVLVEHYTSADAGLCTRLIKPKMEGTVAQDEFYRS 186

QY 227 GWLLNIQHLTGAQIGEGEGAVLQGEYLGQKAVKNIKCDVTAQAFDTEAVTMKMQHE 286  
 Db 187 GWALNNKELKLQITGKGEFGDVMGLDYGRRKAVKCIKNDATAQFLAASVMTQLRHS 246

QY 345 SKKLVHDLAARNLIVSEDLVAKVSDPGLAKAERKGGLDSSRLPVKWTAPAEALKHGFTSK 404  
 Db 307 GNNFVHDLAARNLIVSEDLVAKVSDPGLKTAESSTDQTLKLPVWTAPELREKKFSTK 366

QY 367 SDWWSFGVLLMEVFSGRVPPRIPKDVPPRVEKGYKMDADPGDPPAVVEVMKNCWHL 426

QY 465 PARRPPRKLAEKL 478  
 Db 427 AAMRPSFLQQLREQL 440

RESULT 13  
 PCT-US95-05008-7  
 Sequence 7, Application PC/TUS9505008  
 GENERAL INFORMATION:  
 APPLICANT: Sugen, Inc.





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GenCore version 5.1.6  
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OM protein - protein search, using sw model.

Run on: September 11, 2003, 14:13:56 ; Search time 29 Seconds  
 (without alignments) 2550.952 Million cell updates/sec

Title: US-09-977-261-2  
 Perfect score: 2671  
 Sequence: 1 MAGRGLSLVSWRAFHGCDSAE.....PASVSGQDADGSTSPRSOEP 507

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 541936 seqs, 145912426 residues  
 Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pupbaa/US07\_PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pupbaa/US08\_PUBCOMB.pep:\*

3: /cgn2\_6/ptodata/1/pupbaa/US06\_NEW\_PUB.pep:\*

4: /cgn2\_6/ptodata/1/pupbaa/US07\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pupbaa/US07\_NEW\_PUB.pep:\*

6: /cgn2\_6/ptodata/1/pupbaa/PC07\_PUBCOMB.pep:\*

7: /cgn2\_6/ptodata/1/pupbaa/US07\_NEW\_PUB.pep:\*

8: /cgn2\_6/ptodata/1/pupbaa/US08\_PUBCOMB.pep:\*

9: /cgn2\_6/ptodata/1/pupbaa/US09\_PUBCOMB.pep:\*

10: /cgn2\_6/ptodata/1/pupbaa/US09C\_PUBCOMB.pep:\*

11: /cgn2\_6/ptodata/1/pupbaa/US09\_NEW\_PUB.pep:\*

12: /cgn2\_6/ptodata/1/pupbaa/US09\_NEW\_PUB.pep:\*

13: /cgn2\_6/ptodata/1/pupbaa/US10\_PUBCOMB.pep:\*

14: /cgn2\_6/ptodata/1/pupbaa/US10C\_PUBCOMB.pep:\*

15: /cgn2\_6/ptodata/1/pupbaa/US10\_NEW\_PUB.pep:\*

16: /cgn2\_6/ptodata/1/pupbaa/US60\_NEW\_PUB.pep:\*

17: /cgn2\_6/ptodata/1/pupbaa/US60\_PUBCOMB.pep:\*

18: /cgn2\_6/ptodata/1/pupbaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query Match Length	DB ID	Description
1	2671	100.0	507	9 US-09-977-269-2
2	2671	100.0	507	10 US-09-977-260-2
3	2671	100.0	507	11 US-09-977-261-2
4	2671	75.3	386	12 US-10-187-900-4
5	2012	75.3	415	12 US-10-187-900-2
6	1245.5	46.6	450	9 US-09-977-269-7
7	1245.5	46.6	450	10 US-09-977-269-7
8	1245.5	46.6	450	11 US-09-977-261-7
9	1245.5	46.6	450	15 US-10-059-585-42
10	1245.5	46.6	450	15 US-10-177-293-88
11	1245.5	46.6	450	16 US-10-288-377A-2
12	916	34.3	357	11 US-09-929-266-9
13	768	28.8	258	10 US-09-840-704-3
14	742.5	27.8	509	9 US-09-977-269-18
15	742.5	27.8	509	10 US-09-977-260-18

**RESULT 1**

US-09-977-269-2

; Sequence 2, Application US/09977269  
 ; Patent No. US20020083037A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ULLRICH, AXEL  
 ; APPLICANT: GISCHIZKY, MIRKHAII  
 ; APPLICANT: SURES, IRMINGARD  
 ; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES  
 ; FILE REFERENCE: 038602/1260  
 ; CURRENT APPLICATION NUMBER: US/09-977-269  
 ; CURRENT FILING DATE: 2001-10-16  
 ; PRIORITY APPLICATION NUMBER: 08/232,545  
 ; PRIORITY FILING DATE: 1994-04-22  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 507  
 ; TYPE: PRT  
 ; ORGANISM: Unknown Organism  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte  
 ; OTHER INFORMATION: kinase 1

**ALIGNMENTS**

US-09-977-269-2

Query Match 100.0% ; Score 2671; DB 9; Length 507;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-209;  
 Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 MAGRGLSLVSWRAFHGCDSAEELPRSPRLRANHPPVSPARMTRWRAPGTOCITKCBT
Db	1 MAGRGLSLVSWRAFHGCDSAEELPRSPRLRANHPPVSPARMTRWRAPGTOCITKCBT
Db	1 MAGRGLSLVSWRAFHGCDSAEELPRSPRLRANHPPVSPARMTRWRAPGTOCITKCBT
Qy	61 RPKGELAFRKGDVVTILEACENKSWYRKHHTSGQEGIAGALREREALSAQPKLIM
Db	61 RPKGELAFRKGDVVTILEACENKSWYRKHHTSGQEGIAGALREREALSAQPKLIM
Qy	121 PWFHGKISQEAQVQLQPPEDGLFLVRESARHPGDYVLCVSVGRDVHYRVLHRDGHLTI

180



RESULT 4  
 US-10-187-900-4  
 ; Sequence 4, Application US/10187900  
 ; Publication No. US2003016622A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BEASLEY, Ellen M. et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; FILE REFERENCE: CL001061  
 ; CURRENT APPLICATION NUMBER: US/10/187,900  
 ; CURRENT APPLICATION NUMBER: US/10/187,900  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SEQ ID NO 2  
 ; LENGTH: 415  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-10-187-900-2  
 ; Query Match 75.3%; Score 2012; DB 12; Length 415;  
 ; Best Local Similarity 100.0%; Pred. No. 5 1e-156;  
 ; Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 ; Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 ; Query Match 75.3%; Score 2012; DB 12; Length 386;  
 ; Best Local Similarity 100.0%; Pred. No. 4.7e-156;  
 ; Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 ; Query 122 WFGKISQEAQVQOLQPPEPDGLFLVRESARHPDGYVLCVSGRDVHYVRLHRDGHTID 181  
 ; 1 WFGKISQEAQVQOLQPPEPDGLFLVRESARHPDGYVLCVSGRDVHYVRLHRDGHTID 60  
 ; Db 182 EAVFFCNLMDVHYSKDKGAICTKLYPKRKHGTSKSEELARGWILNLQHLTGQI 241  
 ; 90 EAVFFCNLMDVHYSKDKGAICTKLYPKRKHGTSKSEELARGWILNLQHLTGQI 149  
 ; Db 242 GEGEFGAVLQGEVYQKAVKNTRCDVTAQAFIDETAVTMKHOHENLVRLGLGVHLQGY 301  
 ; 150 GEGEFGAVLQGEVYQKAVKNKCDVTAQAFIDETAVTMKHOHENLVRLGLGVHLQGY 209  
 ; Db 302 IVMEHVSKGNLVNLFRTGRALVNTAQOLQFSHVAGMEYLESKLVHDLARNILVS 361  
 ; Db 210 IVMEHVSKGNLVNLFRTGRALVNTAQOLQFSHVAGMEYLESKLVHDLARNILVS 269  
 ; Query 362 EDLVAKVSDFGLAKAERKGKDSSRLPVKWTAPEALKHGKFTSKSDVMSFGVLLWEVSYG 421  
 ; Db 270 EDLVAKVSDFGLAKAERKGKDSSRLPVKWTAPEALKHGKFTSKSDVMSFGVLLWEVSYG 329  
 ; Query 422 RAPYPPKMSIKEVSEAVEVKYRMEPPEGCPGPVHLMSSCWEAPARRPPFKLAKLARE 481  
 ; Db 330 RAPYPPKMSIKEVSEAVEVKYRMEPPEGCPGPVHLMSSCWEAPARRPPFKLAKLARE 389  
 ; Query 482 LRSAGAPASVSGODADGSTSPRSQEP 507  
 ; Db 390 LRSAGAPASVSGODADGSTSPRSQEP 415  
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 RESULT 6  
 US-09-977-269-7  
 ; Sequence 7, Application US/09977269  
 ; Patent No. US20020082037A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ULLRICH, AXEL  
 ; APPLICANT: GISHIZKY, MIRHAIR  
 ; APPLICANT: SURES, TRMINGARD  
 ; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES  
 ; FILE REFERENCE: 033602/1260  
 ; CURRENT APPLICATION NUMBER: US/09/977,269  
 ; CURRENT FILING DATE: 2001-10-16  
 ; PRIORITY APPLICATION NUMBER: 08/232,545  
 ; PRIORITY FILING DATE: 1994-04-22  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 7  
 ; LENGTH: 450  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-977-269-7  
 ; Query Match 46.6%; Score 1245.5; DB 9; Length 450;  
 ; Best Local Similarity 54.1%; Pred. No. 2.1e-93;  
 ; Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

RESULT 5  
 US-10-187-900-2  
 ; Sequence 2, Application US/10187900  
 ; Publication No. US2003016622A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BEASLEY, Ellen M. et al

QY 47 WAPGQCITKCEHTRPKGELAFRKGDVWTLAECKNSWRVKHITSGBGGLAAGALR 106  
 Db 8 WPSGTECIAKTNFHGTAEQDLPFCGDVLTAVTRDPNPKVAKNKV-GREGITPANYQ 66  
 QY 107 EREALSADPKLUSLMPWFHGKTSQGOAVQOLPPEGLFLYRESARHPGDVLCVSFRDV 166  
 Db 67 KREGVAGTKLUSLMPWFHGKTRREQERLLYPPERGLFLVRESTNYPGDTLCVSCDGKV 126  
 QY 167 IHYRVLHRDGHLTDEAVFCNLMDVERHSKDKGAICTKLVRPKRGKHSABELARA 226  
 Db 127 EHRYMWHASKLISDEEVYFLMOLVERHTSDADGLCTRLIKPKMEGTVAADEFYRS 186  
 QY 227 GWLNQHQHTLGAQIGEGERGAVALGOEYLGQKAVKNIKDVTQAFLBETAVMVKHRS 286  
 Db 187 GWALNKKELKLQOTCRGERGFDVMGLDYRGKVKCIKNDATAQFLAERSVMTOLRS 246  
 QY 287 NLVRLLGVILHQ-GLYIVMHEVHSKGNLNVPLRTRGRALVTAQLQFSLHVAEGMEYLE 344  
 Db 247 NLVQLLGVIEEKGYVITYEVAKSGSLVDSLRSRGSVLDGDCLLKFSIDVCEAMEYLE 306  
 QY 345 SKKLVRDLAARNLIVSEDLYAKVSDFGLAKAERKGDSLSSRLPVKTAPEALKHCKFTSK 404  
 Db 307 GNNFVRDLAARNLIVSEDNVAKSDFGLTKEASSTQDTGKLPVWTAPALREKKFSTK 366  
 QY 405 SDWWSGIVLMEVFSYGRAPYKMSKKEVEAVERGKMRMPEPGEPPGPPVILMSSCWEAE 464  
 Db 367 SDWWSGIVLMEVFSYSGRVPYPRIPLLKDVPRVERGYKMDAPDGCPPAVEMVKHLD 426  
 QY 465 PARRPFKRKAEKL 478  
 Db 427 AAMRPFQLOREQL 440

RESULT 7  
 US-09-977-260-7  
 ; Sequence 7, Application US/09977260  
 ; Publication No. US20020192790A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ULLRICH, AXEL  
 ; APPLICANT: GISHZKY, MIKHAIL  
 ; APPLICANT: SURES, IRMINGARD  
 ; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES  
 ; FILE REFERENCE: 038602/1260  
 ; CURRENT APPLICATION NUMBER: US/09/977,260  
 ; CURRENT FILING DATE: 2001-10-16  
 ; PRIOR APPLICATION NUMBER: 08/232,545  
 ; PRIOR FILING DATE: 1994-04-22  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SEQ ID NO 7  
 ; LENGTH: 450  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; ORGANISM: Homo sapiens  
 US-09-977-261-7  
 ; Query Match 46 6%; Score 1245.5; DB 11; Length 450;  
 ; Best Local Similarity 54.1%; Pred. No. 2.1e-93; Mismatches 115; Indels 3; Gaps 2;  
 ; Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;  
 QY 47 WAPGQCITKCEHTRPKGELAFRKGDVWTLAECKNSWRVKHITSGBGGLAAGALR 106  
 Db 8 WPSGTECIAKTNFHGTAEQDLPFCGDVLTAVTRDPNPKVAKNKV-GREGITPANYQ 66  
 QY 107 EREALSADPKLUSLMPWFHGKTSQGOAVQOLPPEGLFLYRESARHPGDVLCVSFRDV 166  
 Db 67 KREGVAGTKLUSLMPWFHGKTRREQERLLYPPERGLFLVRESTNYPGDTLCVSCDGKV 126  
 QY 167 IHYRVLHRDGHLTDEAVFCNLMDVERHSKDKGAICTKLVRPKRGKHSABELARA 226  
 Db 227 EHRYMWHASKLISDEEVYFLMOLVERHTSDADGLCTRLIKPKMEGTVAADEFYRS 186  
 QY 287 NLVRLLGVILHQ-GLYIVMHEVHSKGNLNVPLRTRGRALVTAQLQFSLHVAEGMEYLE 344  
 Db 247 NLVQLLGVIEEKGYVITYEVAKSGSLVDSLRSRGSVLDGDCLLKFSIDVCEAMEYLE 306  
 QY 345 SKKLVRDLAARNLIVSEDLYAKVSDFGLAKAERKGDSLSSRLPVKTAPEALKHCKFTSK 404  
 Db 307 GNNFVRDLAARNLIVSEDNVAKSDFGLTKEASSTQDTGKLPVWTAPALREKKFSTK 366  
 QY 405 SDWWSGIVLMEVFSYGRAPYKMSKKEVEAVERGKMRMPEPGEPPGPPVILMSSCWEAE 464  
 Db 367 SDWWSGIVLMEVFSYSGRVPYPRIPLLKDVPRVERGYKMDAPDGCPPAVEMVKHLD 426  
 QY 465 PARRPFKRKAEKL 478  
 Db 427 AAMRPFQLOREQL 440

RESULT 8  
 US-09-977-261-7  
 ; Sequence 7, Application US/09977261  
 ; Publication No. US20020054527A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ULLRICH, AXEL  
 ; APPLICANT: GISHZKY, MIKHAIL  
 ; APPLICANT: SURES, IRMINGARD  
 ; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES  
 ; FILE REFERENCE: 038602/1261  
 ; CURRENT APPLICATION NUMBER: US/09/977,261  
 ; CURRENT FILING DATE: 2001-10-16  
 ; PRIOR APPLICATION NUMBER: 08/232,545  
 ; PRIOR FILING DATE: 1994-04-22  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 7  
 ; LENGTH: 450  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-977-261-7  
 ; Query Match 46 6%; Score 1245.5; DB 11; Length 450;  
 ; Best Local Similarity 54.1%; Pred. No. 2.1e-93; Mismatches 115; Indels 3; Gaps 2;  
 ; Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;  
 QY 47 WAPGQCITKCEHTRPKGELAFRKGDVWTLAECKNSWRVKHITSGBGGLAAGALR 106  
 Db 8 WPSGTECIAKTNFHGTAEQDLPFCGDVLTAVTRDPNPKVAKNKV-GREGITPANYQ 66  
 QY 107 EREALSADPKLUSLMPWFHGKTSQGOAVQOLPPEGLFLYRESARHPGDVLCVSFRDV 166  
 Db 67 KREGVAGTKLUSLMPWFHGKTRREQERLLYPPERGLFLVRESTNYPGDTLCVSCDGKV 126  
 QY 167 IHYRVLHRDGHLTDEAVFCNLMDVERHSKDKGAICTKLVRPKRGKHSABELARA 226  
 Db 227 EHRYMWHASKLISDEEVYFLMOLVERHTSDADGLCTRLIKPKMEGTVAADEFYRS 186  
 QY 287 NLVRLLGVILHQ-GLYIVMHEVHSKGNLNVPLRTRGRALVTAQLQFSLHVAEGMEYLE 344  
 Db 247 NLVQLLGVIEEKGYVITYEVAKSGSLVDSLRSRGSVLDGDCLLKFSIDVCEAMEYLE 306  
 QY 345 SKKLVRDLAARNLIVSEDLYAKVSDFGLAKAERKGDSLSSRLPVKTAPEALKHCKFTSK 404  
 Db 307 GNNFVRDLAARNLIVSEDNVAKSDFGLTKEASSTQDTGKLPVWTAPALREKKFSTK 366  
 QY 405 SDWWSGIVLMEVFSYGRAPYKMSKKEVEAVERGKMRMPEPGEPPGPPVILMSSCWEAE 464  
 Db 367 SDWWSGIVLMEVFSYSGRVPYPRIPLLKDVPRVERGYKMDAPDGCPPAVEMVKHLD 426

QY 465 PARRPFKLAELK 478  
 US-10-059-585-42  
 Sequence 42, Application US1010059585  
 Publication No. US20030082776A1  
 GENERAL INFORMATION:  
 APPLICANT: Ota, Toshio  
 APPLICANT: Isogai, Takao  
 APPLICANT: Nishikawa, Tetsuo  
 APPLICANT: Hayashi, Koji  
 APPLICANT: Otsuka, Kaoru  
 APPLICANT: Yamamoto, Jun-Ichi  
 APPLICANT: Ishii, Shizuko  
 APPLICANT: Sugiyama, Tomoyasu  
 APPLICANT: Wakanatsu, Ai  
 APPLICANT: Nagai, Keiichi  
 APPLICANT: Otsuki, Tetsuji  
 APPLICANT: Funahashi, Shin-Ichi  
 APPLICANT: Senoo, Chiaki  
 APPLICANT: Nezu, Jun-Ichi  
 TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN KINASE/PROTEIN PHOSPHATASE  
 FILE REFERENCE: 06501-098001  
 CURRENT APPLICATION NUMBER: US10/059, 585  
 CURRENT FILING DATE: 2002-01-29  
 PRIOR APPLICATION NUMBER: PCT/JP00/03060  
 PRIOR FILING DATE: 2000-07-28  
 PRIOR APPLICATION NUMBER: US 60/183, 322  
 PRIOR FILING DATE: 2000-02-17  
 PRIOR APPLICATION NUMBER: US 60/159, 590  
 PRIOR FILING DATE: 1999-10-18  
 PRIOR APPLICATION NUMBER: JP 2000-118776  
 PRIOR FILING DATE: 2000-01-11  
 PRIOR APPLICATION NUMBER: JP 2000-183767  
 PRIOR FILING DATE: 2000-05-02  
 PRIOR APPLICATION NUMBER: JP 11-248036  
 PRIOR FILING DATE: 1999-07-29  
 NUMBER OF SEQ ID NOS: 64  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO: 42  
 LENGTH: 450  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-059-585-42

Query Match 46.6%; Score 1245.5; DB 15; Length 450;  
 Best Local Similarity 54.1%; Pred. No. 2.1e-93;  
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCITCCEHTRPKGELAFRKGDVWTLLEACENKSNWYRKHHTSGQEGGLAAGLR 106  
 8 WPSGTECIAKYKINFHGKAEQDLPCKQDVLTVAVTKDPNNWAKAKNV-GREGGIAPANVQ 66

Db 107 EREALSADPKLSLMPWPHGKISGQEAQVQOLQPPEDGLFLVYESARPGDYVLCVSFGRDV 166  
 67 KREGYKAGTKLSLMPWPHGKITREQERLIPPEPGLFLVYESRNGDYTCVSCDGKV 126

Db 167 IHRVVLHRDGHLTIDEAVFCNLMDMVHYSKDKGAICTKLVRPKRKHGTGKSAEELARA 226  
 127 EHYRIVWYHASKLISIDEVYFENLMLQVHYSADGDCLTTRKPKVNEGTVAODEFYSR 186

QY 227 GWLWLNQHLTIGAQIGEFGEGAVLOGEYLGOKVAVVNKICDVTAQOFQFLDETAVMTKQHE 286  
 187 GWALWNLKELKQIQTGKGERCDYMLQDGRGNKAVKCIKNDATAQFLAESAQMVLQRHS 246

QY 287 NLVRUJGVLHQ--GYIYTMVHVKSNLUNLRTTRALVPAQLOQFLSLHVAEGMYLE 344  
 247 NLVOLQGLVIVEEKGGLXIVTEYMAKSSLVDTLRSRSVLGGDCLCKLFSLDVCEAMYLE 306

QY 345 SKKLVHDLAARNILVSYEDLVAKVSDFGLAKAERKGKLDSSRLPVKWTAPALKHGKFTSK 404  
 US-10-177-293-88  
 Sequence 88, Application US10177293  
 Publication No. US20030124128A1  
 GENERAL INFORMATION:  
 APPLICANT: Lillie, James  
 APPLICANT: Glatt, Karen  
 APPLICANT: Xu, Yongyao  
 APPLICANT: Zhao, Xumei  
 APPLICANT: Gammavarp, Manjula  
 APPLICANT: Kamatkar, Shuhhangi  
 APPLICANT: Merrins, Maureen  
 APPLICANT: Myer, Vic  
 APPLICANT: Wang, Youzhen  
 APPLICANT: Hoersch, Sebastian  
 APPLICANT: Monahan, John  
 APPLICANT: Meyers, Rachel E.  
 APPLICANT: Bast Jr., Robert C.  
 APPLICANT: Hortobagyi, Gabriel N.  
 APPLICANT: Pusztai, Lajos  
 APPLICANT: Meric, Funda  
 APPLICANT: Sahin, Aysegul  
 APPLICANT: Mills, Gordon B.  
 TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, AND THERAPY OF BREAST CANCER  
 FILE REFERENCE: MRT-038  
 CURRENT APPLICATION NUMBER: US10/177, 293  
 CURRENT FILING DATE: 2002-06-21  
 PRIOR APPLICATION NUMBER: US 60/177, 293  
 PRIOR FILING DATE: 2001-07-18  
 PRIOR APPLICATION NUMBER: US 60/299, 887  
 PRIOR FILING DATE: 2001-06-21  
 PRIOR APPLICATION NUMBER: US 60/301, 572  
 PRIOR FILING DATE: 2001-06-27  
 PRIOR APPLICATION NUMBER: US 60/306, 501  
 PRIOR FILING DATE: 2001-07-18  
 PRIOR APPLICATION NUMBER: US 60/325, 002  
 PRIOR FILING DATE: 2001-09-25  
 PRIOR APPLICATION NUMBER: US 60/362, 585  
 PRIOR FILING DATE: 2002-03-05  
 PRIOR APPLICATION NUMBER: US 60/xxxx, xxx  
 PRIOR FILING DATE: 2002-03-14  
 NUMBER OF SEQ ID NOS: 506  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO: 88  
 LENGTH: 450  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-177-293-88

Query Match 46.6%; Score 1245.5; DB 15; Length 450;  
 Best Local Similarity 54.1%; Pred. No. 2.1e-93;  
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCITCCEHTRPKGELAFRKGDVWTLLEACENKSNWYRKHHTSGQEGGLAAGLR 106  
 8 WPSGTECIAKYKINFHGKAEQDLPCKQDVLTVAVTKDPNNWAKAKNV-GREGGIAPANVQ 66

Db 107 EREALSADPKLSLMPWPHGKISGQEAQVQOLQPPEDGLFLVYESARPGDYVLCVSFGRDV 166  
 67 KREGYKAGTKLSLMPWPHGKITREQERLIPPEPGLFLVYESRNGDYTCVSCDGKV 126

QY 167 HYRVLHRDGLTIDAEVRENLMDEVHRSKDGAICTKLYRKRRKGTKSAEELARA 226  
 Db 127 HYRIMTHASKLISIDEDEVYFENLMOLEVHETSADGCLTRIKPKVMEGTVQADEFYRS 186  
 QY 227 GWLLNQHLTGAGQGEGERGAVLQGEYLGOKVAKNIKDVTQAFDDETAWMKMOHE 286  
 Db 187 GWALNMKELKLQQTICKGERGDVMDYRGKVKAVCKIKNDATAQFLAEASVMTQRLHS 246  
 QY 287 NLVRLGVLHQ--GLYIWMHVSQNLNVLFRGRALVNTAQOFLQFSLVVAEGMEYLE 344  
 Db 247 NLVOLGVIVPEKGGLVYTMKSLVOLRSRGRSGLCLIKFSDVCEAMEYLE 306  
 QY 345 SKKLVRLDLAARNLVSLEDLVAKSDFGLAKAERKGDSLSSRLPVKWTPEALKHGFSTK 404  
 Db 307 GNNFVHDLAARNLVSEDNVAKSDFGLTKEASSQDGTKLPLVKTPEALREKFSTK 366  
 QY 405 SDVWSGVLMEVFSGRAPPKMSKREVAEKGYRMPEPGEPPGPVWLMSSCWEAE 464  
 Db 367 SDVWSGILMEIYISGRVYPRPLKDVVPVREKGYKMDAPDGCPAVEVMKNCWHLQ 426  
 QY 465 PARRPERKLAEKL 478  
 Db 427 AAMRPSFLQREQL 440

RESULT 11  
 US-10-298-377A-2  
 ; Sequence 2, Application US/10298377A  
 ; Publication No. US20030130209A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: The Scrips Research Institute  
 ; APPLICANT: Cheresh, David A.  
 ; APPLICANT: Paul, Robert  
 ; APPLICANT: Elieceiri, Brian  
 ; TITLE OF INVENTION: Method of treatment of Myocardial  
 ; TITLE OF INVENTION: Infarction  
 ; FILE REFERENCE: TSLI-651.5  
 ; CURRENT APPLICATION NUMBER: US/10/298,377A  
 ; CURRENT FILING DATE: 2002-11-18  
 ; PRIOR APPLICATION NUMBER: 10/298,377  
 ; PRIOR FILING DATE: 2002-11-18  
 ; PRIOR APPLICATION NUMBER: 09/470,881  
 ; PRIOR FILING DATE: 1999-12-22  
 ; PRIOR APPLICATION NUMBER: 09/538,248  
 ; PRIOR FILING DATE: 2000-03-29  
 ; PRIOR APPLICATION NUMBER: PCT/US99/11780  
 ; PRIOR FILING DATE: 1999-03-28  
 ; PRIOR APPLICATION NUMBER: 60/087,220  
 ; PRIOR FILING DATE: 1998-05-29  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 2  
 ; LENGTH: 450  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens  
 ; US-10-298-377A-2

Query Match 46.6%; Score 1245.5; DB 16; Length 450;  
 Best Local Similarity 54.1%; Pred. No. 2.1e-93;  
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGQOCITCCEHTRKPGELAFRKGDVWVTLACEENKSHYRKHHTSGOGLLAGALR 106  
 Db 8 WPSGTECIAYNFHGAQDLPFCKGDLVITAVTKDPNNWAKKVV-GREGITPANYQ 66  
 QY 107 EREALSADPKLISLMPFHKGKLSQGRBVAQQLQPPEDGFLFLYRESARHPGDYVLCVSEGRDV 166  
 Db 67 KREGVAGTKLISLMPFHKGITREOERLIPPTGFLFLYRESTNWPQGDTLCSDCGV 126  
 QY 167 HYRVLHRDGLTIDAEVRENLMDEVHRSKDGAICTKLYRKRRKGTKSAEELARA 225  
 Db 127 HYRIMTHASKLISIDEDEVYFENLMOLEVHETSADGCLTRIKPKVMEGTVQADEFYRS 186  
 QY 227 GWLLNQHLTGAGQGEGERGAVLQGEYLGOKVAKNIKDVTQAFDDETAWMKMOHE 286  
 Db 187 GWALNMKELKLQQTICKGERGDVMDYRGKVKAVCKIKNDATAQFLAEASVMTQRLHS 246  
 QY 287 NLVRLGVLHQ--GLYIWMHVSQNLNVLFRGRALVNTAQOFLQFSLVVAEGMEYLE 344  
 Db 307 GNNFVHDLAARNLVSEDNVAKSDFGLTKEASSQDGTKLPLVKTPEALREKFSTK 366  
 QY 405 SDVWSGVLMEVFSGRAPPKMSKREVAEKGYRMPEPGEPPGPVWLMSSCWEAE 464  
 Db 367 SDVWSGILMEIYISGRVYPRPLKDVVPVREKGYKMDAPDGCPAVEVMKNCWHLQ 426  
 QY 465 PARRPERKLAEKL 478  
 Db 427 AAMRPSFLQREQL 440

RESULT 12  
 US-09-929-266-9  
 ; Sequence 9, Application US/09929266  
 ; Publication No. US20030045694A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brian T. Chait  
 ; APPLICANT: Darin R. Latimer  
 ; APPLICANT: Paul M. Lizardi  
 ; APPLICANT: Eric R. Kershner  
 ; APPLICANT: Jon S. Morow  
 ; APPLICANT: Matthew E. Roth  
 ; APPLICANT: Martin J. Mattessich  
 ; APPLICANT: Kevin J. McConnell  
 ; TITLE OF INVENTION: ULTRA-SENSITIVE DETECTION SYSTEMS  
 ; FILE REFERENCE: 01173.0003U2  
 ; CURRENT APPLICATION NUMBER: US/09/929,266  
 ; CURRENT FILING DATE: 2001-08-13  
 ; PRIOR APPLICATION NUMBER: 60/224,939  
 ; PRIOR FILING DATE: 2000-08-11  
 ; PRIOR APPLICATION NUMBER: 60/283,498  
 ; PRIOR FILING DATE: 2000-04-12  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 9  
 ; LENGTH: 357  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-929-266-9

Query Match 34.3%; Score 916; DB 11; Length 357;  
 Best Local Similarity 52.3%; Pred. No. 1.2e-66;  
 Matches 183; Conservative 62; Mismatches 97; Indels 8; Gaps 3;

QY 47 WAPGQOCITCCEHTRKPGELAFRKGDVWVTLACEENKSHYRKHHTSGOGLLAGALR 106  
 Db 8 WPSGTECIAYNFHGAQDLPFCKGDLVITAVTKDPNNWAKKVV-GREGITPANYQ 66  
 QY 107 EREALSADPKLISLMPFHKGKLSQGRBVAQQLQPPEDGFLFLYRESARHPGDYVLCVSEGRDV 166  
 Db 67 KREGVAGTKLISLMPFHKGITREOERLIPPTGFLFLYRESTNWPQGDTLCSDCGV 126  
 QY 167 HYRVLHRDGLTIDAEVRENLMDEVHRSKDGAICTKLYRKRRKGTKSAEELARA 225  
 Db 127 HYRIMTHASKLISIDEDEVYFENLMOLEVHETSADGCLTRIKPKVMEGTVQADEFYRS 186  
 QY 227 GWLLNQHLTGAGQGEGERGAVLQGEYLGOKVAKNIKDVTQAFDDETAWMKMOHE 286  
 Db 187 GWALNMKELKLQQTICKGERGDVMDYRGKVKAVCKIKNDATAQFLAEASVMTQRLHS 246  
 QY 287 NLVRLGVLHQ--GLYIWMHVSQNLNVLFRGRALVNTAQOFLQFSLVVAEGMEYLE 344  
 Db 307 GNNFVHDLAARNLVSEDNVAKSDFGLTKEASSQDGTKLPLVKTPEALREKFSTK 366  
 QY 405 SDVWSGVLMEVFSGRAPPKMSKREVAEKGYRMPEPGEPPGPVWLMSSCWEAE 464  
 Db 367 SDVWSGILMEIYISGRVYPRPLKDVVPVREKGYKMDAPDGCPAVEVMKNCWHLQ 426  
 QY 465 PARRPERKLAEKL 478  
 Db 427 AAMRPSFLQREQL 440

QY 345 SKKLVHDLAARNLVSLEDLVAKVSDFGIAK---AERKGGLDSSRLPVK 389  
 US-09-840-704-3  
 ; Sequence 3, Application US/09840704  
 ; Patent No. US20020122801A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dedhar, Shoukat  
 ; APPLICANT: Haenigan, Greg  
 ; TITLE OF INVENTION: Integrin-Linked Kinase and its Uses  
 ; FILE REFERENCE: KIN 2C0N  
 ; CURRENT APPLICATION NUMBER: US/09/840,704  
 ; CURRENT FILING DATE: 2001-04-23  
 ; PRIORITY APPLICATION NUMBER: 09/5566, 906  
 ; PRIORITY FILING DATE: 2000-05-09  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 3  
 ; LENGTH: 258  
 ; TYPE: PRT  
 ; ORGANISM: H. sapiens  
 ; FEATURE:  
 ; NAME/KEY: Other  
 ; LOCATION: (1)...(258)  
 ; US-09-840-704-3

Query Match 27 8%; Score 742.5; DB 9; Length 509;  
 Best Local Similarity 37.6%; Pred. No. 2.8e-52; Gaps 9;  
 Matches 161; Conservative 87; Mismatches 155; Indels 25; Gaps 9;  
 Db 78 GDLGFEKGEOLRILE--QSEWWKKQASLITFGEGTIPFNFVAKANSLEF---PWF 129  
 Qy 65 GELAFTRKGDVVTLFACENKSWYRKHNTSGQEGILAGALREREALSADPKLSMPWFH 124  
 Db 125 GKISQEAQVQOLOPED--GLFLVVERASRHPGDVYLKV---SRGRDVHYRVLHD-G 176  
 Qy 130 KNLSRKDAEROLLAPGNTGHSFLRESESTAGSFSSLVRDFDQNGEVVVKHYKIRNDLNG 189  
 Db 177 HLTIDEAVFCNLMDMVERYSKDKGAIKCLVLRPKHGTKSAEELRAGWGLNLQHLT 236  
 Db 190 GFYISSLPRITEPGLHLVRLVYTNASDGLCTRLSPCG---TOKPQPKWDEWEVPTLK 246  
 Db 237 LGAQIIGEGERGAVLQG-LQ-KVAVKNIK-CDVTAQAFDETAVMTKMOHENLYRLGV 294  
 Db 247 LVERLIGAGQFGEWMMGGYINGHTKAVKSLKQGMSMSPDAFLAEANLMKQLOHQRLVRLYV 306  
 Qy 295 ILHQDLYIVMEHVSQGNLNVFLTRPGRALVNTAQOLQFSLHVABGMEYLESKLVLHDLA 354  
 Db 307 VTQEPIYITTEYMEENGSLVDFLKTSGIKLTINKLMAQTAEGMAFERNYTHDLR 366  
 Db 355 ARNLYVEDLVAKVSDFGIKA---ERKGGLDSSRLPVKTAPELKHKFTSKSDWNSF 410  
 Db 367 AANTILVSDTSLCKTADFLGLARLIEDNEYTAREGAKPFIKWTAPBAINYCHFTKSDWNSF 426  
 Qy 411 GVLMLMEVFSYGRAPPKMSKEVEBAVEKCYMEEPEGCCPGVHVLMSSEWEARFARR 470  
 Db 427 GILLEIVTHGRIPPGMTNEPVIONLERGYRMVRPDNCPEELVQIMRLCWKERFDRPT 486  
 Qy 471 FRKLAKL 478  
 Db 487 FDYLRSLV 494

RESULT 14

QY 349 VRDOLAAARNLVSLEDLVAKVSDFGIKAATRKGLDSSRLPVKTAPELKHKFTSKSDW 408  
 Db 121 VRDOLAAARNLVSLEDLVAKVSDFGIKAATRKGLDSSRLPVKTAPELKHKFTSKSDW 180  
 ; Sequence 18, Application US/09977260  
 ; Publication No. US20020192790A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ULLRICH, AXEL  
 ; APPLICANT: GISHIZKY, MIKHAIL  
 ; APPLICANT: SURIS, IRMINGARD  
 ; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES  
 ; FILE REFERENCE: 038602/1260  
 ; CURRENT APPLICATION NUMBER: US/09/977, 260  
 ; CURRENT FILING DATE: 2001-10-16  
 ; PRIORITY APPLICATION NUMBER: 08/232, 545  
 ; PRIORITY FILING DATE: 1994-04-22  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO: 18  
 ; LENGTH: 509  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-977-260-18

Query Match 27 8%; Score 742.5; DB 10; Length 509;  
 Best Local Similarity 37.6%; Pred. No. 2.8e-52; Gaps 9;  
 Matches 161; Conservative 87; Mismatches 155; Indels 25; Gaps 9;  
 Qy 65 GELAFTRKGDVVTLFACENKSWYRKHNTSGQEGILAGALREREALSADPKLSMPWFH 124  
 Db 78 GDLGFEKGEOLRILE--QSEWWKKQASLITFGEGTIPFNFVAKANSLEF---PWF 129  
 ; SOFTWARE: Patentin Ver. 2.1

QY	125	GKTSQGEAVQOLQPPED--GLEFVRESARHPIGDYVLCV----SGRDVTHYRULHDG	176
Db	130	KNTSQRDKASQKOLLAGPNTGSFLRSESTAGSFVLSQFDDQNGOEVVKYKIRLDNG	189
QY	177	HLTIDEAVFCNLMDMVEHYSKDKGAICTKLVRPKRGHTKSAEELARAGWLNLQHLT	236
Db	190	GFYISPRITFPGLHLBLVHRTNASDGLCTRLSPCQ--TOKPQPKWEDEWEPRETLK	246
QY	237	LGAQIGEGERGAVIQLQGEYIQLQ-KVAVKNK-CDVTAQAFQDETAVMTKMOHENLYRLGV	294
Db	247	LVERLGAGOFGEVWNGYQHNTKAVKSLQKSMSPDAFLAANLMQLOQHQLRYAV	306
QY	295	ILHQGLYTMEHVSQKNLUNFLTRGRALNTAQLQFSLHVAEEMEYLSKESKLVYRDLA	354
Db	307	VTQEFEVITTEYMEWNGSLVDFLKPSGKIKITINKLIDMAQIAEGKAFIBERNYIHRDLR	366
QY	355	ARNTLIVSDELVAKVSYDFGLAKA---ERKLDDSSRLPVKMTAPEALKHGKFTSKPSDWSF	410
Db	367	AANLIVSDTSLCKIADFGLARLIEDNEYTAREGAKPFIKWTAAPEAINYGTFTIKSDWWSF	426
QY	411	GVLMEVFSYGRAYPKMSIKEVSEVERGYRMEPEGCCPQVHLMSSWEAEARRPP	470
Db	427	GILLETIVHGRIPPGMTNPVEQIQLNERGYRMVRPDCPPELYQMLRCWKERPEDRPT	486
QY	471	FRKLAELK	478
Db	487	FDYLSRVL	494

Search completed: September 11, 2003, 14:15:15  
Job time : 31 secs